In re Appln. of Toshihide ITO et al. Application No. 09/671,084

AMENDMENTS

IN THE CLAIMS:

Please amend the claims as follows:

- 1. (Currently amended) A lead-free solder consisting essentially of:
 - (a) 1.0 to 3.49 2.99 wt. % of Ag;
 - (b) 0.4 to 0.99-1.3 wt.% of Cu;
 - (c) 0.02 to 0.06 wt.% of Ni;
 - (d) 0.02 to 0.06 wt.% of Fe; and
 - (e) a balance of Sn;

wherein said Ni serves to lower a the copper dissolution rate of said solder.

- 2. (Currently amended) The solder according to claim 1, wherein a the content of Ni is in a range from 0.02 to 0.04 wt.%.
- 3. (Previously presented) The solder according to claim 1, wherein said solder has a copper dissolution rate of 0.20 μ m or less.
- 4. (Previously presented) The solder according to claim 1, wherein said solder has a liquidus temperature of 240°C or lower.
- 5. (Previously presented) The solder according to claim 1, wherein said solder has a liquidus temperature of 230°C or lower.
- 6. (Original) The solder according to claim 1, wherein said solder has a viscosity of 2.5 cP or lower.
 - 7. (Previously cancelled)
- 8. (Original) The solder according to claim 1, further containing 0.02 to 0.05 wt.% of Fe.
 - 9. (Currently amended) A lead-free solder consisting essentially of:

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- (a) 1.0 to 3.49 2.99 wt.% of Ag;
- (b) 0.4 to 0.99 1.3 wt.% of Cu;
- (c) 0.02 to 0.06 wt.% of Fe; and
- (d) a balance of Sn;

wherein said Fe serves to lower a the copper distribution rate of said solder.

- 10. (Currently amended) The solder according to claim 9, wherein a-the content of Fe is in a-the range from 0.02 to 0.05 wt.%.
- 11. (Previously presented) The solder according to claim 9, wherein said solder has a copper dissolution rate of 0.20 μ m or less.
- 12. (Previously presented) The solder according to claim 9, wherein said solder has a liquidus temperature of 240°C or lower.
- 13. (Previously presented) The solder according to claim 9, wherein said solder has a liquidus temperature of 230°C or lower.
- 14. (Original) The solder according to claim 9, wherein said solder has a viscosity of 2.5 cP or lower.

Claims 15-20 (cancelled).

- 21. (New) A lead-free solder consisting essentially of:
 - (a) 1.0 to 3.49 wt.% of Ag;
 - (b) 0.4 to 0.99 wt.% of Cu;
 - (c) 0.02 to 0.06 wt.% of Ni;
 - (d) 0.02 to 0.06 wt.% of Fe; and
 - (e) a balance of Sn;

wherein said Ni serves to lower the copper dissolution rate of said solder.

22. (New) A lead-free solder consisting essentially of:

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- (a) 1.0 to 3.49 wt.% of Ag;
- (b) 0.4 to 0.99 wt.% of Cu;
- (c) 0.02 to 0.06 wt.% of Fe; and
- (d) a balance of Sn;

wherein said Fe serves to lower the copper dissolution rate of said solder.

- 23. (New) The solder according to claim 1, wherein the content of Cu is in the range of from 0.4 to 0.99 wt.%.
- 24. (New) The solder according to claim 9, wherein the content of Cu is in the range of from 0.4 to 0.99 wt.%